



**Product:** [1476A](#) 

Inst, 8 Pr #18+22 Str BC, PVC Ins E1, IS/OS, Blk PVC Jkt, 300V PLTC-ER ITC-ER CMG

 [Request Sample](#)

## Product Description

UL Instrumentation, 8 Pair 18+22AWG (7x26+7x30) Bare Copper, PVC Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC-ER ITC-ER CMG AWM 2464 SUN RES DIR BUR

## Technical Specifications

### Product Overview

|                        |                                                                                                                                                                                                                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | Industrial Control, Raceways Cable trays and ducts, Digital Control, Instruments (4-20ma, 0-10v, ...), low voltage digital control (24v, ...), encoders, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Construction Details

#### Conductor

| Element   | Number of Element | AWG | Stranding | Material         |
|-----------|-------------------|-----|-----------|------------------|
| Pair(s)   | 8                 | 18  | 7x26      | BC - Bare Copper |
| Comm Wire | 1                 | 22  | 7x30      | BC - Bare Copper |

#### Insulation

| Element   | Material                 | Thickness [in] | Color Code                |
|-----------|--------------------------|----------------|---------------------------|
| Pair(s)   | PVC - Polyvinyl Chloride | 0.017          | Black, White and Numbered |
| Comm Wire | PVC - Polyvinyl Chloride | 0.019          | Orange                    |

#### Inner Shield Material

| Element   | Type      | Material    | Coverage | Drain Type       |
|-----------|-----------|-------------|----------|------------------|
| Pair(s)   | Tape      | Alum / Poly | 100%     | 20 AWG (7x28) TC |
| Comm Wire | No Shield |             |          |                  |

#### Outer Shield Material

| Type | Material    | Coverage | Drainwire Type   |
|------|-------------|----------|------------------|
| Tape | Alum / Poly | 100%     | 18 AWG (7x26) TC |

#### Outer Jacket Material

| Material                 | Thickness | Diameter | Ripcord |
|--------------------------|-----------|----------|---------|
| PVC - Polyvinyl Chloride | 0.063 in  | 0.640 in | Yes     |

### Electrical Characteristics

#### Electricals

| Element   | Nom. Conductor DCR | Max. Current                   |
|-----------|--------------------|--------------------------------|
| Pair(s)   | 5.86 Ohm/1000ft    | 2.5 Amps per Conductor at 25°C |
| Comm Wire | 14.7 Ohm/1000ft    |                                |

#### Voltage

| UL Voltage Rating                                 |
|---------------------------------------------------|
| 300 V (PLTC-ER, CMG, UL AWM 2464), 150 V (ITC-ER) |

### Mechanical Characteristics

Temperature

| UL Rating | Operating       |
|-----------|-----------------|
| 105°C     | -30°C to +105°C |

Bend Radius

| Stationary Min. |
|-----------------|
| 6 in            |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 501 lbs        |
| Bulk Cable Weight: | 222 lbs/1000ft |

Standards and Compliance

|                                 |                                                                                                         |
|---------------------------------|---------------------------------------------------------------------------------------------------------|
| Environmental Suitability:      | Indoor, Outdoor, Sunlight Resistance, Burial                                                            |
| Flammability / Fire Resistance: | UL1685 UL Loading, FT4, T-29-520, 1202                                                                  |
| NEC / UL Compliance:            | Article 725, Article 800, CMG, PLTC-ER, ITC-ER                                                          |
| AWM Compliance:                 | 2464                                                                                                    |
| CEC / C(UL) Compliance:         | CMG                                                                                                     |
| European Directive Compliance:  | EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance:                | China RoHS II (GB/T 26572-2011)                                                                         |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.339 Revision Date: 06-09-2020 |
|----------------------|--------------------------------------------------|

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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

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